#### Well Operator's Report of Well Work

Farm Name: **Bennett, Phoebe & John** 

Well Name:

H Bennett #19

Left

in

Well

37'

210'

1354

4590

B- 312

Elevation: 1177

Quadrangle: Weston

Casing

&

**Tubing** 

13 3/8

9 5/8

7'

4 1/2'

Cement

in

ft^3

**75 SKS** 

**225 SKS** 

135 SKS

LOCATION:

District: Hackers Creek

County:

Used

in

**Drilling** 

37'

210'

1354

Lewis

Latitude: 2565

Feet South of D,M,S: 39,

02, 30

39-02-03.55 Exact

Longitude: 10870

Feet West of D,M,S: **80**.

**25** . **00** 

Lat/Lon: 80-27-17.39

API#: 47-041-05604

Company: Bowie, Inc. RR 1, Box 559

Clarksburg, WV 26301

Agent: Casev C. Bowie

Inspector: Tim Bennett

Permit Issued: 2/3/2010

Spud Date: 3/25/2010

TD Date: 4/1/2010

Frac Date: 4/6/2010

Mining?: No Coal Depth: 138-144, 52-56

Rig Type: Rotary O Cable

Verbal Plugging:

Total Depth: 4618

Fresh Water 12, 50, 311

Depth:

Salt Water N/A

Depth:

**Producing Formations:** 

Rock Pressure (psi):

1080

After:

24 Hrs.

Benson

4544-4562

**Benson** 

4444-4455

**Bradford Balltown** 

3643-3877 3300-3398 Open Flow at TD:

Gas (MCF/d) SHOW

Oil (Bbl/d) **ODOR** 

Final Open Flow:

390 CEIVED OPER Office of Oil and

JUN 09 2014 My Department of

Granmental Protection

By:

Date:

Bowie #: B- 312

H Bennett 19

Fracture Record:

Benson 4544-4562

12H 500 GAL HCL, 150 SKS SAND, 300 BBL X-LINK GEL, N2

Benson

4444-4455

12H 500 GAL HCL, 200 SKS SAND, 320 BBL X-LINK GEL, N2

**Bradford** 

3643-3877

12H 750 GAL HCL, 150 SKS SAND, 310 BBL X-LINK GEL, N2

**Balltown** 

3300-3398

12H 500 GAL HCL, 200 SKS SAND, 275 BBL X-LINK GEL, N2

#### **FORMATION**

COMMENT

SAND & SHALE 0-52

COAL & SHALE 52-56

**SAND & SHALE 56-138** 

**COAL & SHALE 138-144** 

**SAND & SHALE 144-1100** 

**SAND 1100-1270** 

L LIME 1270-1600

**B LIME 1600-1710** 

**INJUN 1710-1810** 

**GANT 3 2040-2090** 

**GORDON 2090-2360** 

FIFTH 2360-2470

**BALLTOWN 2470-3400** 

**BRADFORD 3400-3870** 

**BENSON 3870-4618 DTD** 

DAMP @ 12', 1/4" HTO @50', 2040 GAS SHOWING, 2340 GAS SHOWING, 2460 GAS SHOWING, 3300 GAS SHOWING, 3850 GAS SHOWING, 4440 GAS SHOWING.

RECEIVED
Office of Oil and Gas

Office of Oil and Oil a



WR-35 Rev (9-11)

## State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	6/3/14
API#:	47-7700164 W

2607.6				
ATION: Elevation: 2607 ft	Quadrangle: /	Aurora		<del></del>
District: Union	County: Presi			
Latitude: 14,490 Feet South of 39 Deg.				
Longitude 11,075 Feet West of 79 Deg.	35 Min.	Sec.		
Company: Columbia Gas Transmission, LLC				
Address: 1700 MacCorkle Ave SE	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Charleston, WV 25325-1273	* no existing	casing altered		
Agent: Paul Arnick				
Inspector: John Shockey				
Date Permit Issued: 5/15/14				
Date Well Work Commenced: 5/28/14				
Date Well Work Completed: 5/29/14				
Verbal Plugging: NA				
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft):				
Total Measured Depth (ft): 6582 (existing)				
Fresh Water Depth (ft.): none rpt'd by driller in 1971				
Salt Water Depth (ft.): none rpt'd by driller in 1971				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): none rpt'd by driller in 1971				
Void(s) encountered (N/Y) Depth(s) none rpt'd				
PEN FLOW DATA (If more than two producing formatic Producing formation Oriskany (natural gas storage) Pay 2 Gas: Initial open flow MCF/d Oil: Initial open flow	zone depth (ft)_	3408 - 6541		
Final open flow MCF/d Final open flow		o <b>l/d</b> I/d		CEIVED
Time of open flow between initial and final tests			Office c	of Oil & Gas
Static rock Pressurepsig (surface pressure) af	terHou	rs		3 2014
Second producing formation Pay zon		1/1		
Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow		ol/d 1/d	WV De	partment of
Time of open flow between initial and final tests		E	Wironme	ntal Protecti

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

Date

Were core samples taken? YesNo_X	Were	e cuttings caught duri	ing drilling? Yes	No_NA
Were Electrical, Mechanical or Geophysical lo	gs recorded on this well?	If yes, please list High	Resolution MicroVertilog	(pipe inspection)
NOTE: IN THE AREA BELOW PUT FRACTURING OR STIMULATING, PHY DETAILED GEOLOGICAL RECORD O COAL ENCOUNTERED BY THE WELLI	YSICAL CHANGE, ETC OF THE TOPS AND B	C. 2). THE WELL L SOTTOMS OF AL	OG WHICH IS A S L FORMATIONS,	YSTEMATIC
Perforated Intervals, Fracturing, or Stimulating	<b>;:</b>			
Killed well. Pulled tubing. Logged and	d installed mechanica	al bridge plug. In:	stalled new wellh	ead.
Pulled bridge plug. Acid stimulated.				
Acid treatment: 2000 gal 15% HCl acid	, 150 bbls fresh water	, Nitrogen. Avg ra	ate = 4 bpm, ATP	= 1790 psig
Plug Back Details Including Plug Type and De	pth(s):			
Formations Encountered: Surface:	Top Depth	/	Bottom	<u>Depth</u>
NA - no new borehole drilled				
		<b>*****</b>		

# State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 - 085 - 10024 C	County Ritchie	<sub>District</sub> Grant
Quad Harrisville 7.5'	ad Name na	Field/Pool Name na
Farm name Coastal Lumber Company		Well Number Deem #1
Operator (as registered with the OOG) Ene		
Address 501 56th St.	City Charleston	State WV Zip 25304
Top hole Northi	ttach an as-drilled plat, profile vieng 4343017.5	Easting 491144.4
Bottom Hole Northin	ng na	Easting na Easting na
Elevation (ft) 1105 GL	Type of Well ■New □ Existin	ng Type of Report □Interim ■Final
		ical Depth Type   Deep   Shallow
Type of Operation □ Convert □ Deepen	■ Drill □ Plug Back □	Redrilling □ Rework □ Stimulate
Well Type □ Brine Disposal □ CBM ■ Ga	as   Oil   Secondary Recovery	□ Solution Mining □ Storage □ Other
Type of Completion		diate hole ■ Air □ Mud □ Fresh Water □ Brine
Date permit issued2/14/13 Da  Date completion activities began well was n  Verbal plugging (Y/N) na Date per	ot completed Date completion	Date drilling ceased3/29/13a activities ceased na Granted by na
Please note: Operator is required to submit a p	olugging application within 5 days	BECEIVED
Freshwater depth(s) ft100	Open mine(s) (Y/	, All and 1-36
Salt water depth(s) ft na		red (Y/N) depths
Coal depth(s) ft na		itered (V/N) denths
Is coal being mined in area (Y/N)	n	WW Department of
		Environmental Protection

API 47- 08	5 _ 10024	Farm n	<sub>ame</sub> Coastal L	umber Co	mpany	. W	ell number_C	)eem #1	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket	Did ce	ement circulate (Y/N)
Conductor	17 1/2"	13 3/8"	40	N		3.6#/ft	Depth(s)	* Pro	vide details below*
Surface	12 1/4"	9 5/8"	420	N			na		Driven
Coal						26#/ft	40'	Y, Circ	: 10 bbl stayed at surfa
Intermediate 1	8 7/8"	7"	1700	N.					
Intermediate 2			1700	N	1	7#/ft	40'	Y, Circ	7 bbl, stayed at surfa
Intermediate 3									
Production	6 1/2"								
Tubing	1 3 11/2								
Packer type and	depth set								
Comment Details with 3% KCI CEMENT			ged well, logs did not s	how zones to be	productive, p	plan to plug ba	ck and kickoff horiz	ontally were	canceled. Hole loaded
DATA	Class/Type of Cement	Number of Sacks	Slurry		eld	Volume	Cem	ent	WOC
Conductor	Driven	OI Sacks	wt (ppg)	) (ft <sup>3</sup>	/sks)	<u>(ft ³ )</u>	Top (		(hrs)
Surface	Class A	190	45.0						
Coal		190	15.6	1.3	20	228	Surfa	ace	8
Intermediate 1	Class A	255							
Intermediate 2	Oldoo A	255	14.8	1.4	40	357	Surfa	асе	8
Intermediate 3									
Production									
Tubing									<del></del>
Drillers TD (ft) Deepest format Plug back proc	ion penetrated W	arren		Loggers TD Plug back to					
Kick off depth (									
Check all wireli	ne logs run		density resistivity	deviated/			duction mperature	≣sonic	
Well cored	Yes □ No	Conventiona	l • Sidewall	1	Wer	e cuttings	collected	Yes □	No
DESCRIBE THE MOST MADE IN MADE IN THE MOST MADE IN THE MO	E CENTRALIZE relate. Production casing was re	ER PLACEMEN'	T USED FOR E	EACH CASI	NG STR	Cent	ralizers placed on S	Shoe and eve	ery 200' to surface on
AS WELL CO	OMPLETED AS	SHOT HOLE	□ Yes ■ No	DETA	AILS _		0	CEIVE	
AS WELL CO	MPLETED OPE	N HOLE?	Yes A No	DETAIL	s		-		nd Gas
							JUI	N 0 6 21	<del>314</del>
'ERE TRACER	S USED DYes	s 🖪 No T	YPE OF TRAC	CER(S) USE	D		— WV D	epartn	nent of
							Environm	iental l	Protection

API 47- 085 - 10024 Farm name Coastal Lumber Company Well number Deem #1

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
na	na	na	na	na	na
					Tia .
<b> </b>					
LL					

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
na	na	na	na_	na	na	na	na	
							i i a	na
						-		
				<del> </del>				
<u> </u>								
	·							
						<del> </del>		
							RECEIV	ED
						Offic	ce of Oil	
				<del> </del>		0111	2001011	ATTA CAGS
							JUN 0 6	2014
LL							301/ A O K	.014

Please insert additional pages as applicable.

WV Department of Environmental Protection

API 47- 085	5 _ 10024	Farm	name Coasta	l Lumber C	ompany	_Well numbe	r Deem #1	
PRODUCING	FORMATION	(S)	<u>DEPTHS</u>					
		(2)	<u>DEI IIIO</u>					
na		<del></del>	na	TVD _	na	_ MD		
			-					
Please insert ac	ditional pages	as applicable.				_		
GAS TEST	□ Build up	□ Drawdown	□ Open Flow	(	OIL TEST - Flo	ow 🗆 Pump	)	
SHUT-IN PRE	SSURE Suri	face na	psi Botto	om Hole <u>na</u>	psi [	OURATION (	OF TEST na	hrs
OPEN FLOW	Gas	Oil	NGL	,	W/			
OI EN I EOW	na mci	_				GAS MEASU		
	- Inc	ipu <u>na</u>	bpd <u>na</u>	_ bpd _na	a bpd	□ Estimated	□ Orifice	□ Pilot
LITHOLOGY/	TOP	DOMEO!						
FORMATION	DEPTH IN FT	BOTTOM	TOP	ВОТТОМ				
TORVIATION	NAME TVD	DEPTH IN FT	DEPTH IN FT	DEPTH IN F			RECORD QUAN	
Fill	0	TVD 32	MD	MD 32	TYPE OF FLUI	D (FRESHWAT	ER, BRINE, OIL,	GAS, H <sub>2</sub> S, ETC)
Sandstone	32	500	32		<del> </del>		Fill	
Siltstone	500	750	500	500	Sands		gers with little wat	ter present
Sandstone	750	900	750	750 900			one/Shale	
Silty Shale	900	1300	900	1300			ndstone	
Sandstone	1300	1700	1300		<del></del>		Shale Stringers	
Siltstone	1700	1894	1700	1700 1894			ne/Oil Show	
Big Lime	1894	2050	1894	2050			ty/Shale	
Big Injun	2050	2130	2050	2130			nestone	<del></del>
Weir Sandstone	2130	2270	2130	2270	+		ne/Oil Show	
Berea Sandstone	2460	2480	2460	2480			ndstone	
Gantz Sandstone	2567	2592	2567	2592			ndstone	
Gordon	2718	2850	2718	2850			ne/Oil Show	
Warren	3529	3625	3529	3625			ndstone	
Please insert add			0020	3023		Siltstone/S	Slight Oil Show	
		• •						
Drilling Contract		ervices L.L.C.						
Address 42 Lync	n Riage		City	Walton		State WV	Zip _25286	
Logging Compa	nv Weatherford	US LP						
Address 584 Had			City	Jane Lew	•	State WV	æ: 26279	
			City		`	State WV	Zip <u></u>	
Cementing Com		Well Services						
Address RT. 5 Ha	all Road		City	Buckhannon		State WV	Zip 26201	
Stimulatina Cam	many NA							
Stimulating Com Address	ipany NA					DEC	CEIVED	
Please insert add	itional negge as	annliaghla	City			State Office of	_ZiD	36
	///	applicable.	1			Onice Of	Un and U	
Completed by _	Lowell Warden				Telephone 30	4-925-61.00N	0.6 2014	
Signature 2	2 /4	WU	Title VP	of Business D		Date 6		
	<i>)</i> /						partment (	o <del>1</del>
Submittal of Hyd	Iraulic Fracturir	ng Chemical D	isclosure Inform	nation A	ttach copy of Fi		Reset Prote	

### State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API	<sub>47 -</sub> 085	_ 10077	County Ritchie		District Murphy	<u>'</u>
	Burnt House 7		Pad Name Wilson	า	Field/Pool Name	Burnt House
Farm	<sub>name</sub> G. W. Co	nrad			Well Number	S-542-8
Opera	tor (as registered	with the OOG)	Stalnaker Energy (	Corportation		
Addre	ess 220 West M	lain St.	City Gler	nville	State WV	Zip <u>26351</u>
As Dr	Landing Point	Top hole It of Curve It	Attach an as-drille Northing 4,321,957 Northing Northing		Easting	y
Elevat	tion (ft) 1,059'	GL	Type of Well	■New □ Existing	g Type of Rep	oort □Interim ■Final
Permi	t Type 🗆 De	viated 🗆 Ho	orizontal   Horizont	tal 6A 💄 Vertic	cal Depth Type	e □ Deep ■ Shallow
Туре	of Operation 🗆 (	Convert □ D	eepen 🛮 Drill 🗆	Plug Back	Redrilling   Rewo	rk    Stimulate
Well 7	Гуре □ Brine D	isposal □ CBM	☐ ■ Gas ■ Oil □ Sec	ondary Recovery	□ Solution Mining □	□ Storage □ Other
• •	of Completion of	=	tiple Fluids Produc	ced □ Brine □	Gas □ NGL 🛢 O	il 🗆 Other
Produ	•	r 🗆 Mud 🗆	□ Mud □Fresh Wat Fresh Water □ Brine		iate hole ■ Air □ N	Mud □ Fresh Water □ Brine
Date p	permit issued	11/13/2013			/14 Date drill	
	completion activi	_			n activities ceased Granted by	4/30/2014
Please	e note: Operator	is required to su	bmit a plugging applica	ation within 5 days	s of verbal permission RE	C린병ED Foil and Gas
Freshy	water depth(s) ft		55'	Open mine(s) (Y	/N) depths Office C	No
Salt w	ater depth(s) ft _	N	lone	Void(s) encounte	$\operatorname{red}(Y/N)$ denths $W$	IN BUT COUNT
Coal	depth(s) ft	No	ne		ntered (Y/N) depths _	No of
Is coa	l being mined in	area (Y/N)	No		WV I Environ	Department of Department of Protection Reviewed by:

API 47- 085	10077	Farm name_G. W. Conrad				Well	number_S-	542-8	
API 4/-		_ raini name				W CII	number	-	
CASING		Casing		New or	Grade wt/ft		Basket		ent circulate (Y/N) de details below*
STRINGS Conductor	Size 20"		Depth 20'	Used New		55#	Depth(s) None	FIOVE	Sand In
Surface	15"		294'	New		12#	None	<del></del>	Yes
Coal	13	11 3/4	-	11011				1	
Intermediate 1	11"	8 5/8" 2	567'	New		32#	2567'		Yes
Intermediate 2		2 3/0	-	11011				<u> </u>	
Intermediate 3								<del> </del>	
Production	7 7/8"	4 1/2" 4	719'	New	1.	1.6#	4677'	+	No
Tubing	7 776	4 1/2	710	11011	·	1.011	1077	-	
Packer type and d	epth set								
Comment Details									
CEMENT	Class/Type	Number	Slurry		ield	Volume	Cem		woc
DATA Conductor	of Cement	of Sacks	wt (ppg)	( ft	³/sks)	<u>(ft ³ )</u>	Top (I	MD)	(hrs)
Surface	Sand In	400	44.0	+	.4	100	Crowfe		12
Coal	Class A	130	14.8	-	.4	182	Surfa	ace	12
Intermediate 1	1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	205/450	40.7/44.0	1.0	)/4 A	705	Surfa		40
Intermediate 2	Light Class A/Class A	325/150	12.7/14.8	1.0	3/1.4	795	Suria	ace	12
Intermediate 3		ļ							
Production			110	<del>                                     </del>	0.4	055	40.	4.41	M::::
Tubing	50/50 POZ	500	14.6	1	.31	655	184	44"	Minimum 72
							<u> </u>		
Drillers TD (fi	t) 6361'		Lo	oggers TI	O (ft) 636	3			
Deepest forma	ation penetrated Alex			lug back t	o (ft) 471	19			
Plug back pro	ocedure 6% gel with 1/4#	cello flake was used to fil	I all open hole.						
Kick off depth	ı (ft) N/A								
Check all wire	line logs run	•	•	□ deviate			nduction		
		■ neutron ■ r	esistivity	📕 gamma	ray	<b>≜</b> t	emperature	<b>≜</b> soni	С
			0.1		***				
well cored	□Yes ■ No	Conventional	Sidewall		W	ere cuttings	collected 1	□ Yes ■	No
DESCRIBE T	HE CENTRALIZEI	R PLACEMENT U	JSED FOR E	ACH CA	SING ST	TRING No	ne on the surface.	. One near t	he bottom of the 8 5/8".
	ring starting with one on the first join								
		****						<del></del>	
WAS WELL	COMPLETED AS S	HOT HOLE -	Yes 🖪 No	DE	TAILS				B. (*)
							DE	CEIV	ED
WASWELL	COMPLETED OPE	NHOIF? ¬V	es <b>a</b> No	DETA	2 11.		n L	of Oil 8	and Gas
WAS WELL	WAS WELL COMPLETED AS SHOT HOLE   Yes   No DETAILS   RECEIVED   WAS WELL COMPLETED OPEN HOLE?   Yes   No DETAILS   Office of Oil and Gas								
							11	JN 0 4	2014
WERE TRAC	ERS USED	s 🖪 No TY	PE OF TRAC	CER(S) U	SED _				
								Denar	tment of a Protection
							M A .	menis	al Protection
							Environ	111101111	

API	47- 085 _	10077	Farm name_	G. W. Conrad	Well numberS-542-8
-----	-----------	-------	------------	--------------	--------------------

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	4/25/2014	3612	4554	25	Riley, Balltown
2	4/30/2014	3302	3362	30	Speechly, Warren
3	4/30/2014	2591	2920	21	Warren, Elizabeth
				1	

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	4/30/204		2600	1260	1800	0	0	1,000,000 SC
2	4/30/204		2300	2680	1400	0	0	1,000,000 SC 1,000,000 SC
3	4/30/204	62	2250	2400	1200	0	0	1,000,000 SC
								ENED
							REC	Elvand Gas
							OHICE O	Oil and Gas

Please insert additional pages as applicable.

JUN 6 4 2014

WV Department of Environmental Protection

WR-35 Rev. 8/23/13

API 47- 085	_ 10077	Farm i	name G. W. Co	onrad		Well numbe	s-542-8
PRODITONIG I	FORMATION(S	)	<u>DEPTHS</u>				
	ORUMINO	_	3261'-3332'	TVD 3	261'-3332'	MD	
Warren			3344'-3623'		344'-3623'	MD	
Speechly					676'-4459'	<del></del>	
Balltown			3676'-4459'				
Riley			4545'-4719'		545'-4719'		
Please insert ad	lditional pages as	applicable.					
GAS TEST	□ Build up □	Drawdown	■ Open Flow	O	IL TEST 🗆 I	Flow 🗆 Pum	p
SHUT-IN PRE	SSURE Surfa	ce 900	_psi Botto	m Hole <u>900</u>	psi	DURATION	OF TEST 24 hrs
OPEN FLOW	Gas 1,800 mcfp	Oil od Show	NGL bpd 0		Vater bpd	GAS MEAS  Estimated	
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT			D RECORD QUANTITYAND TER, BRINE, OIL, GAS, H2S, ETC)
	0		0				Page Attached
	-					<del> </del>	
Please insert ac	lditional pages as	applicable.					
Address 1595 U	actor Waco Oil an	u Gas	City	Glenville		State WV	Zip 26351
					***	State	Zip
Logging Comp	any Weatherford	International		144		- 1007	00450
Address 777 No	orth River Avenue		City	Weston		State	Zip <u>26452</u>
Cementing Cor	mpany Universal	Well Services					
Address Route	5 Haul Road		City	Buckhannon		StateWV_	Zip 26201
Stimulating Co	mpany Nabors	Completion an	d Production Se	rvices			_
Address Route	····p		City	Black Lick		State PA	zipteoeived Gas
	lditional pages as	applicable.					- 410 90 m
C1-1	Jason M Miller				Talanha	304-462-5701	Ource .
	Jason M. Miller	Mill.	Title Er	ngineer		304-402-3701	CO (2014 11 1N 0 4 (013
Signature (	ydraulic Fracturii	ng Chemical I		mation	Attach copy o	f FRACFOCU	S Resigny Department of Environmental Protect

		WELL LOG	
Sand & Shale	0	50	
Sand	50	114	
Red Rock & Shale	114	172	
Sand & Shale	172	426	
Red Rock & Shale & Sand	426	1153	Damp @ 50'
Sand & Shale	1153	1276	22
Shale	1276	1308	
Sand & Shale	1308	1584	
Sand	1584	1653	
Sand & Shale	1653	1848	
Sand	1848	1862	
Sand & Shale	1862	1908	
Little Lime	1908	1929	
Sand & Shale	1929	1944	
Big Lime	1944	1987	
Big Injun	1987	2050	
Shale	2050	2256	
Weir	2256	2346	
Shale	2346	2368	
Berea	2368	2384	
Shale	2384	2586	
Elizabeth	2586	2924	
Shale & Siltstone	2924	3242	
Warren	3242	3335	
Shale	3335	3342	
Speechley	3342	3613	
Shale	3613	3666	
Balltown	3666	4070	
Shale	4070	4334	
Riley	4334	4685	
Shale	4685	4744	
Benson	4744	4750	
Shale	4750	4869	
Alexander	4869	5032	
Shale	5032	5400	
Elk	5400	5418	
Shale	5418	6361	
TD	6361		

RECEIVED
Office of Oil and Gas

JUN 0 4 2014

WV Department of Environmental Protection WR-35

### State of West Virginia

DATE:	
AP1 #:	47-989-03716 P
	97.03716

Rev (8-10) Department of 1			AP1 #:	47-089-03716 P		
Office Well Operator	of Oil and G			97.037		
		Will Work		,	•	
Farm name: SISK, HILDRED	Operator We	II No.: 1-WV040	10			
LOCATION: Elevation: 1816	Quadrangle:	ROCK CAVE				
			· · · · · · · · · · · · · · · · · · ·			
District: BANKS  Latitude: 8.180 Feet South of 38 Deg.	County: UPS	1. <sup>30</sup> Se				
Longitude 5,080° Feet West of 80 Deg.		1. 30 Se				
Company:						
	Casing &	Used in	Left in well	Cement fill	1	
Address:	Tubing	drilling		up Cu. Ft.		
MOUNTAIN V OIL & GAS P.O.BOX 470 BRIDGEPORT WV28330	13 3/8	42	LEFT	SAND IN		
Agent: MIKE SHAVER	9 5/8	210	LEFT	80 SK	]	
Inspector: BILL HATFIELD	7"	1447	LEFT	260 SK	]	
Date Permit Issued: 03-05-2010					1	
Date Well Work Commenced: 02-15-11						
Date Well Work Completed: 04-14-11					[	
Verbal Plugging: YES					İ	
Date Permission granted on: 03-13-2011				BEA	EIVED	
Rotary X Cable Rig				Office of	Oil & Gas	
Total Vertical Depth (ft): 7247				Omce Of	Ull & Gas	
Total Measured Depth (ft): 7247					1 2014	
Fresh Water Depth (ft.): 150 FT - 415 FT		<b>†</b>		00.11	± 2014	
Salt Water Depth (ft.): 1748 FT				WVDana	atmost of	
Is coal being mined in area (N/Y)? N		<del></del>	City	TOPPONE	rtment <b>of</b> al Prot <b>ectio</b> i	
Coal Depths (ft.): 410 - 415				OURINEIN	HI Prolection	
Void(s) encountered (N/Y) Depth(s)	<del></del>		<del> </del>			
		1				
OPEN FLOW DATA (If more than two producing formation Producing formation PTA Pay 2	s please inclu	de additional da	ua on separate she	et)		
Gas: Initial open flowMCF/d Oil: Initial open flo	one depth (ft)_	1/4				
Final open flow MCF/d Final open flow	Bb					
Time of open flow between initial and final tests	Hours					
Static rock Pressurepsig (surface pressure) after	zHou	<b>"S</b>				
Second producing formation Pay zone	a danil (A)					
Gas: Initial open flowMCF/d Oil: Initial open flo	e depth (fl) wBb	1/4				
Final open flow MCF/d Final open flow	Bb					
Time of open flow between initial and final tests	Hours					
Static rock Pressurepsig (surface pressure) after	rHour	S				
I certify under penalty of law that I have personally examined an	d antifamiliái.	with the i-f-	naine automite			
the attachments and that, based on my indinity of Mose individua	s immediately	vicii uic intoffi responsible fo	anon submitted on r obtaining the i-f-	this document a	and all	
the information is true, accurate, and complete	Men			umanon 1 Delje/	e mat	

Were core samples taken? Yes		ing? YesNoX
Were X Electrical, Mechani	cal, or Geophysical logs recorded on this well?	
DETAILED GEOLOGICAL RECO	PUT THE FOLLOWING: 1). DETAILS OF PER G, PHYSICAL CHANGE, ETC. 2). THE WELL LOG W RD OF THE TOPS AND BOTTOMS OF ALL FORMAT ORE FROM SURFACE TO TOTAL DEPTH.	TITAL IO A COLOMBIA A SEC.
Perforated Intervals, Fracturing, or Stime	ulating:	
Formations Encountered: Surface:	Top Depth /	Bottom Depth
Formations Encountered: Surface:	Top Depth /	Bottom Depth
Formations Encountered: Surface:	Top Depth /	Bottom Depth
Formations Encountered: Surface:	Top Depth /	Bottom Depth
Formations Encountered: Surface:	Top Depth /	Bottom Depth
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Formations Encountered: Surface:	Top Depth /	Bottom Depth
Formations Encountered: Surface:	Top Depth /	Bottom Depth
Formations Encountered: Surface:	Top Depth /	Bottom Depth



WR-35 Rev (5-01) DATE: 5/7/14

API#: 47-105-01368

### State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Well Work

Farm name:Kennith and Elika Mcclung_	Opera	ator Well No.:_	HR 495	
LOCATION: Elevation:1029'	Quad	rangle:	_Burning Springs	s WV 7.5'
District: Spring Creek	Cour	ntv:	Wirt	
District:Spring Creek	z. 55 Mi	in. 00 Sec.	_ ' ' ' ' '	
Longitude 10800' Feet West of 81	Deg. 20 Mi	in. 00 Sec	<b>)</b> ,	
· · · · · · · · · · · · · · · · · · ·				
Company:Hard Rock Exploration				
	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1244 Martins Branch Road				
Charleston WV, 25312				
Agent: Marc Scholl	13 3/8"	39'	39'	N/A
Inspector: Joe Taylor	9 5/8"	966'	966'	456ft3 CTS
Date Permit Issued: 8/20/13	7"	2319'	2319'	539ft3 CTS
Date Well Work Commenced: 2/28/14	4.5"	7950'	7950'	84 ft3
Date Well Work Completed: 4/10/14				
Verbal Plugging:	Gamma Log f	rom (3860' MD	, 4557'TVD) I	COP- 3900'
Date Permission granted on:	Single shot su	rveys from (38	67' – Surface)	
Rotary x Cable Rig				
Total Depth (feet): 8203'TMD, 4557'TVD		Control		
Fresh Water Depth (ft.): 701'		HECEN	/ED	
	0	ffice of O	1 & G:46	
Salt Water Depth (ft.): 1928'				
		MAY 2 1	2014	
Is coal being mined in area (N/Y)? N			le 2-1 :	
Coal Depths (ft.):N/A	ا ا			
ODEN, DY ONED A MA	_ W	V Departi	ment of	
OPEN FLOW DATA	"Enviro	onmental	Protection	1
Deadwain a formation I awar IIwan Cha	da Davissana	الكاراك المسال	771140 02021	MD
Producing formationLower Huron_Sha	nePay zone			
Contribution Contribution MCF/4 Oil	. Todatal a co		252'TVD - 45	577 IVD
Gas: Initial open flow_ Trace MCF/d Oil	: initial open i	iomBp	1/ <b>a</b>	
Final open flow_>1.5_MMCF/d F				
Time of open flow between initial and i	•			
Static rock Pressure_1350psig (s	urface pressur	e) after _72	Hours	
	_			
Second producing formation		ne depth (ft)		
	Initial open fl		3bl/d	
	inal open flow		bl/d	
Time of open flow between initial and i		Hour		
Static rock Pressurepsig (surface	e pressure) af	terHo	urs	
NOTE: ON BACK OF THIS FORM PUT THE INTERVALS, FRACTURING OR STIMULATING LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE Signed:  By: President	NG, PHYSICAI GEOLOGICAI	L'CHANGE, E	TC. 2). THE WE	ELL
Date: 5/21/2014				

Formation:	Top:	Bottom:		
Soil/Sand/Shale	0	1802		
Salt Sand	1802	2168		
Big Injun	2168	2232		
shale	2232	4557		
Lower Huron Section	4380	4557		

#### All depths shown As TVD

03/11/14. Total pipe ran 7950' KB - 177 jts R-3 N-80 with Peak Completions 14 stage openhole packer system.

03/12/14 Universal well services Pressure test to 5000 psi. Bleed off and pump 5 bbl water down casing and drop ball for pump out shoe. Follow ball with N2 at 7000 scf/min. Land ball and pressure casing up to 3000 psi with approx. 150k scf N2 (packers shut off flow at 2100 psi). Hold 3000 psi for 20 min. Bleed pressure back down to 850 psi. RU to dump squeeze cmt on to top packer. Pump total of 15 bbls Type 1 2% CaCl cmt mixed at 15ppg.

NOTE: THERE ARE NO PERFORATED INTERVALS IN THIS STYLE OF COMPLETION. THE PACKERS WILL SERVE AS STAGE ISOLATION AND THE BALL ACTIVATED MECHANICAL SLEEVES SERVE AS THE MEANS OF COMMUNICATION FROM WELLBORE TO FORMATION. ALL DEPTHS ARE INDICATED BELOW.

Stage	Sleeve	Sleeve Size	Ball Size	Packer
1	7950.15	P/O Shoe	P/O Shoe	7770.25
2	7637.00	1.156	1.250	7497.15
3	7361.30	1.281	1.375	7221.45
4	7085.50	1.406	1.500	6990.00
5	6854.00	1.531	1.625	5714.10
6	6578.30	1.656	1.750	6438.45
7	6302.50	1.781	2.000	6162.85
8	6026.80	2.031	2.250	5887.30
9	5751.40	2.281	2.500	5611.80
10	5475.95	2.531	2.750	5336.25
11	5200.20	2.781	3.000	5104.75
12	4968.85	3.031	3.250	4829.20
13	4693.05	3.281	3.500	4553.25
14	4417.25	3.531	3.750	4277.65
Anchor				2504.75

04/09/14 – 4/10/14 MIRU Universal well services. Pressure test lines at 7:00pm. Start pumping on Stg 1 at 46k scf/min. Pressure up to 4738 psi and open shoe. Continue pumping and increase rate as pressure allows. Couldn't get much more than 52k scf/min rate. Pump total of 1MM scf N2 – drop 1.25" ball for Stg 2 and pump ball to sleeve with N2 at approx. 20k scf/min, and land ball with 160k scf N2. Didn't see clear operation of sleeve. Increase rate as pressure allows; couldn't reach max rate. Pump total of 1MM scf N2. Drop 1.375" ball for Stg 3. Shut down and let ball drop. Wait 10 mins pressure fell to 2430 psi. Start pumping ball to sleeve, and open sleeve at 4755 psi. Continue to increase rate as pressure allows. Pump total of 1MM scf N2. Repeat Process for Stgs 4 – 14.

	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7
Max P	5929	5905	5834	5859	5846	5920	5887
Avg P	5495	5576	5529	5582	5760	5795	5749
Max R	52.9	53.0	52.4	61.7	62.9	68.6	71.5
Avg R	46.3	45.8	49.6	53.4	61.5	64.4	67.1
Shut In	N/A	N/A	2903-5min	N/A	N/A	N/A	2951-5min
	Stage 8	Stage 9	Stage 10	Stage 11	Stage 12	Stage 13	Stage 14
Max P	5975	5964	5838	5909	5929	5822	5159
Avg P	5890	5840	5627	5518	5402	5793	4269
Max R	53.2	59.5	71.9	50.0	32.8	40.2	105.5
Avg R	49.3	46.1	67.8	40.0	29.6	37.2	102.1
Shut In	N/A	N/A	N/A	N/A	N/A	N/A	1811-5min

Customer: HARDROCK

Lease and Well Name: HR 495

A.F.E #:



Job Type: 9 5/8 SURFACE JOB

Cement Operator: ERIC B FIELDS

Date Cemented: 3/1/2014

Drilling Contractor: GASCO

				Cen	ent Slur	ry Inform	ation					
No. of Sacks		Cemer	t Blend Comp	oosition			Yield (ft³/sk)	Mix Water (gal/sk)	Density (lb/gal)	(bbl) Mix Water	(ft³) of Slurry	(bbl) of Slurry
380		TYPE 1	3% CACL .2	5 FLAKE			1.18	5.20	15.6	47.0	448.4	79.9
									Totals	47.0	448.4	79.9
(57)	3			VA	fellbore l	nformati	on					
	New/Use	d Diameter	Weight (lb/ft)	Top (ft)	Bottom (ft)	Colla	pse/Burst Pre (psi)	ssures		Requeste	ed TOC (ft)	SURFAC
Casing	NEW	9.625	26.0	0	972					TVI	D (ft)	1,017
Previous Cas	ing NEW	13.375	37.0	0	40					141	D (11)	1,017
Tubing or Drill	-									Displaceme	ent Depth (ft)	930
Open Hole		12.375		40	1,017					Бібріцевін	uni wepan (n)	000
Open Hole						C)				Displace	ment (bbl)	75.2
0,	Pumping R	eturns		Ceme	nt Slurry	Tempera	ture Rec	ord (°F)		Fluid Inf	ormation	
Spacer or Gol	Sweep Return Ser	n at Surface	ves	Cement	Reading 1	Reading 2	Reading 3	Average	Mi	x Water Temp	(°F)	36
	Returns Seen at S		yes	Blend 1					Disp	lacement Flui	d Type	WATER
	of Cement Return		10	Blend 2					Displac	cement Fluid 1	remp (°F)	36
7.11.5411				Blend 3	1	T			Displacer	nent Fluid Den	sity (lb/gal)	8.3

Time	Rate (bpm)	Volume (bbl)	Pressure (psi)	<b>Event or Stage Description</b>
5:30				ARRIVE ON LOCATION
5:45				SPOT TRUCKS/SAFETY MEETING
5:50				RIG UP/WAIT ON RIG TO RUN PIPE
8:30				PRE JOB MEETING
8:35	3.5	70	65	H20 AHEAD
8:55	4	10	167	GEL SPACER
8:57	3.5	5	161	H20 SPACER
8:59	3.5	81	155	PUMP CEMENT
9:30				S/D D/P
9:31	4	70	55	DISPLACE H20
10:01	4/2		378	S/D
10:25				WASH TRUCK/RIG OUT
11:00				LEAVE LOCATION

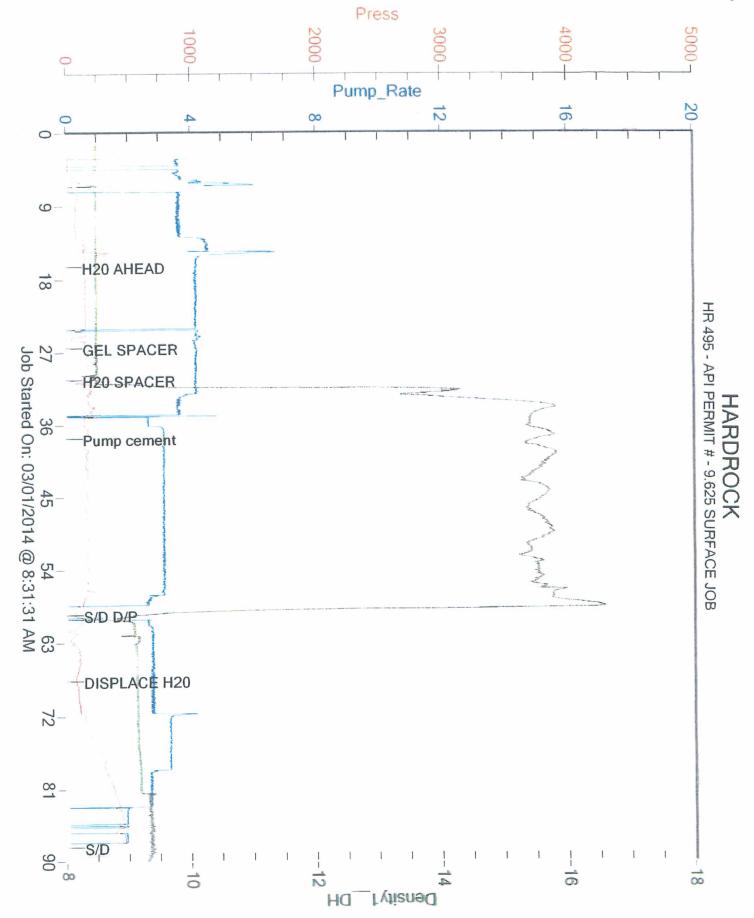
Comments:

Thank you for your business.

UWS Cement Operator Signature:

Eni B. Tells

Customer Representative Signature:



Customer: HARD ROCK

Lease and Well Name: HR 495



Job Type: 7" INTERMEDAITE

Cement Operator: MICHAEL BROWNING

Date Comunted: 3/2/2014 Drilling Contractor: GASCO

AFFA	

	Cement Slurry Information											
No. of Sacks	Cement Blend Composition	Cement Blend Composition Yield (ft <sup>2</sup> /sk) Mix Water (gal/sk)										
390	TYPE 1 2% C.C. 1/4 FLAKE	1.18	5.20	15.6	48.3	460.2	82.0					
		Totals	48.3	460.2	82.0							

	Wellbore Information													
	New/Used	Diameter (in)	Weight (Ib/ft)	Top (ft)	Bottom (ft)	Collapse/Burst Pressures (psl)		Requested TOC (ft)	SURFACE					
Casing	New	7.000		0	2,319	1450/2310		TVD (ft)	2,370					
Previous Casing	NEW	9.625		0	966	860/1280	1	145(14)	2,370					
Tubing or Dritt pipe							İ	Displacement Depth (ft)	2,319					
Open Hole		8.875		966	2,370		1	Displacement Soper (ray	2,013					
Open Hole				L	L		]	Displacement (bbl)	95.0					

Pumping Returns	Cerner	at Slurry	Tempera	ture Rec	Fluid Information		
Spacer or Gel Sweep Return Seen at Surface	Cement	Reading 1	Reading 2	Reading 3	Average	Mix Water Temp (°F)	31
Cement Returns Seen at Surface	Blend 1					Displacement Fluid Type	Water
Amount of Cement Returns (bbl)	Blend 2					Displacement Fluid Temp (°F)	31
	Blend 3		l			Displacement Fluid Density (lb/gal)	8.3

<b>Time</b>	Rate (bpm)	Volume (bbi)	Pressure (psi)	Event or Stage Description
14:00				ARRIVE ON LOC
14:02				WAITING ON RIG
18:30				RIG READY
18:35				SPOT TRUCKS/SAFTY MEETING
19:10				RIG UP
19:15				PRE SAFTY MEETING
19:20			1500	PRESSURE TEST
19:24	4	85	114	START WATER
19:44	4	10	150	START GEL & FLAKE
19:48	4	5	198	START SPACER
19:50	4	70	194	START CEMENT
20:05	4	28	128	START CEMENT
20:12				SD/DP/DISPLACEMENT
20:38	4/2	95	1342	LAND PLUG
21:30				WASH UP
22:00				RACK UP
22:10				LEAVING LOCATION
			<del> </del>	
	_			
			<del> </del>	
	<del> </del>		<del>                                     </del>	

OP PSI= 1500 / LIFT PSI= 1147 / DI	FF PSI= 875		
			Thank you for your business.
UWS Cement Operator Signature:	MICHAEL BROWNING	Customer Representative Signature:	
-			

Customer: HARD ROCK Lease and Well Name: HR 495

A.F.E #:

Job Type: 7" INTERMEDAITE Cement Operator: MICHAEL BROWNING

Date Cemented: 3/2/2014 Drilling Contractor: GASCO



#### PUMP SCHEDULE

Universal Well Services Proposed

Company Representative Proposed

Pump Schedule			Pump Schedule						
Pick up Pump			Pick up Pump						
Pressure Test	1,500	psi	Pressure Test	1,500	psi				
Release Pressure			Release Pressure						
GEL	10.0	bbl	WATER	85.0	bbl				
WATER	90.0	bbl	GEL	10.0	bbl				
		bbl	WATER	5.0	bbl				
CEMENT 15.6	82.0	bbl	CEMENT 14.2	70.0	bbl				
SD/DP		bbl	CEMENT 15.6	28.0	bbl				
		bbl	SD/DP		bbl				
		bbl			bbi				
		bbl			bbl				
		bbl			bbl				
		bbl			bbl				
		bbl			bbl				
Pump Displacement	95.0	bbl	Pump Displacement	95.0	bbl				
		h h 1/ }	l and about						
Land plug at	2.0	bbl/min	Land plug at	2.0	bbl/min				
Bump plug	200	psi over	Bump plug	200	psi over				
Release Pressure/Check	Floats		Release Pressure/Check Floats						

Parameter			]		
Sample Location					
pH	7	7	7	7	[5-9 Recommended]
Temperature (°F)	31	31	31	31	[<80 °F Recommended]
Specific Gravity					[<1.005 Recommended]
Tannin and Lignin (mg/l)					[<25 mg/l Recommended]
Hardness (mg/l)					[<500 mg/l Recommended]
iron (mg/l)					[<20 mg/l Recommended]
Sulfates (mg/l)					(<200 mg/l Recommended)

#### Universal Well Services Water Requirements

This job will require	288	bbls to properly complete the job	
There is a minimum of	540	bbls of useable water that meets UWS testing recommendations for mixing and (or) any spacers or flushes that were designed to be used for the job	the cement slurry(s)
There is a minimum of	540	bbls of fluid that can be used for the displacement of the top plug to the car-	sing shoe
UWS Cement Oper	ator Signature:	Michael Branning	Date: 3-2-14
Customer Representa	tive Signature:		Date:

**Customer: HARDROCK** 

Lease and Well Name: HR 495



Job Type: N2 PACKER SET Cement Operator: ERIC B FIELDS

Date Cemented: 3/11/2014

	A.F.E #:							-	Drilling (	Contractor	GASCO		
					Cen	ent Slun	ry Inform	ation					
No. of Sacks			Cemen	t Blend Comp	osition			Yield (ft³/sk)	Mix Water (gal/sk)	Density (lb/gal)	(bbl) Mix Water	(ft <sup>3</sup> ) of Slurry	(bbl) of Slurry
				-						Totals			
					W	fellbore i	nformatio	on			-		
	T	New/Used	Diameter (in)	Weight (lb/ft)	Top (ft)	Bottom (ft)	Colla	ose/Burst Pre	ssures		Requeste	d TOC (ft)	
Casin	g	NEW	4.500	11.6	0	7,998		- New York			TVI	) (ft)	4.550
Previous C	Casing	NEW	7.000	20.0	0	2,327					100	(nt)	4,550
Tubing or Di	rill pipe										Displaceme	nt Depth (ft)	7,998
Open H	ole		6.250		2,327	8,203					Бізрівсене	in Depai (it)	1,556
Open H	ole										Displace	ment (bbl)	123.0
	Pump	ing Ret	ırns		Cemei	nt Slurry	Tempera	ture Rec	ord (°F)		Fluid Info	ormation	
Spacer or G	Sel Sweep Re	eturn Seen a	t Surface		Cement	Reading 1	Reading 2	Reading 3	Average	Mix Water Temp (°F)			40
Ceme	ent Returns S	Seen at Surfa	ice		Blend 1					Disp	acement Fluid	Туре	WATER
Amou	unt of Cemer	nt Returns (b	bl)		Blend 2				Displacement Fluid Temp (°F)			emp (°F)	40
					Blend 3					Displacen	ent Fluid Den	sity (lb/gal)	8.3

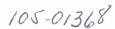
Time	Rate (bpm)	Volume (bbi)	Pressure (psi)	<b>Event or Stage Description</b>
15:30		-		ARRIVE ON LOCATION/
15:45				SPOT TRUCKS/SAFETY MEETING
16:00				RIG UP/WAIT ON RIG
9:40				PRE JOB MEETING
9:48			5029	PRESSURE TEST TO 5000 PSI
9:53	3	5	44	H20 AHEAD
9:55				S/D D/B
9:56	5,844		454	PUMP N2
10:22	5,844-4,224		2995/2950	PSI UP TO 3000 FOR 30 MIN
10:45				BLEED OFF TO PSI TO 1000 PSI
10:55				SHUT IN/RIG OUT
				NEW YORK OF THE SAME OF THE SA

Comments:

Thank you for your business.

En B. Tid UWS Cement Operator Signature:

Customer Representative Signature:



Customer: HARDROCK

Lease and Well Name: HR 495



Job Type: BACKSIDE DUMP

Cement Operator: ERIC B FIELDS

Date Cemented: 3/11/2014

	A.F.E #:							9	Drilling (	Contractor:	GASCO		
					Cen	ent Slur	ry Inform	ation					
No. of Sacks			Cemen	t Blend Comp	osition			Yield (ft <sup>3</sup> /sk)	Mix Water (gal/sk)	Density (lb/gal)	(bbl) Mix Water	(ft <sup>3</sup> ) of Slurry	(bbl) of Slurry
100			TY	PE 1 2% CA	CL			1.18	5.20	15.6	12.4	118.0	21.0
										Totals	12.4	118.0	21.0
					W	lellbore l	nformation	on		447			
	- United States	New/Used	Diameter (in)	Weight (lb/ft)	Top (ft)	Bottom (ft)	Colla	pse/Burst Pre (psi)	ssures		Requested TOC (ft)		
	sing	NEW	4.500	11.6 20.0	0	7,998 2.327					TVD (ft)		4,550
The second secon	r Drill pipe	NEW	7.000	20.0	0	2,321					-		
	n Hole		6.250		2,327	8,203					Displaceme	nt Depth (ft)	7,998
Oper	n Hole	}					<u> </u>				Displace	ment (bbi)	123.0
	Pum	ping Ret	urns		Cemer	at Slurry	Tempera	ture Rec	ord (°F)		Fluid Inf	ormation	
		Return Seen a			Cement	Reading 1	Reading 2	Reading 3	Average		Mix Water Temp (°F)		
Ce	ement Returns	Seen at Surfa	ace		Blend 1						lacement Fluid		WATER
Ar	mount of Cem	ent Returns (b	bl)		Blend 2					Displacement Fluid Temp (°F)			40
					Blend 3					Displacen	ent Fluid Den	sity (lb/gal)	8.3

Time	Rate (bpm)	Volume (bbi)	Pressure (psi)	Event or Stage Description
15:30				ARRIVE ON LOCATION
15:45				SPOT TRUCKS/SAFETY MEETING
16:00				RIG UP/WAIT ON RIG
9:40				PRE JOB MEETING
11:05	3	15	60	BATCH UP AN PUMP CEMENT ON BACKSIDE
11:10	3	2	44	PUMP H20 BEHIND
11:15				S/D WASH TRUCK
11:35				RIG OUT
13:00				LEAVE LOCATION

Comments:

Thank you for your business.

Customer Representative Signature: UWS Cement Operator Signature: